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SEQUENCE LISTING
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<110> Sato, Noriyuki
Sumitomo Pharmaceuticals Co., Ltd.

<120> HLA-A24 binding tumor antigen peptide derived from Livin

<130> 533726

<150> JP2003-273236

<151> 2003-07-11

<160> 63

<170> PatentIn version 3.2

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<213> Homo sapiens

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Met Gly Pro Lys Asp Ser Ala Lys Cys Leu His Arg Gly Pro Gln Pro
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Arg Ser Leu Gly Ser Pro Val Leu Gly Leu Asp Thr Cys Arg Ala Trp
35 40 45

Asp His Val Asp Gly Gln Ile Leu Gly Gln Leu Arg Pro Leu Thr Glu
50 55 60

Glu Glu Glu Glu Glu Gly Ala Gly Ala Thr Leu Ser Arg Gly Pro Ala
65 70 75 80

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Phe Pro Gly Met Gly Ser Glu Glu Leu Arg Leu Ala Ser Phe Tyr Asp
85 90 95

Trp Pro Leu Thr Ala Glu Val Pro Pro Glu Leu Leu Ala Ala Ala Gly
100 105 110

Phe Phe His Thr Gly His Gln Asp Lys Val Arg Cys Phe Phe Cys Tyr
115 120 125

Gly Gly Leu Gln Ser Trp Lys Arg Gly Asp Asp Pro Trp Thr Glu His
130 135 140

Ala Lys Trp Phe Pro Ser Cys Gln Phe Leu Leu Arg Ser Lys Gly Arg
145 150 155 160

Asp Phe Val His Ser Val Gln Glu Thr His Ser Gln Leu Leu Gly Ser
165 170 175

Trp Asp Pro Trp Glu Glu Pro Glu Asp Ala Ala Pro Val Ala Pro Ser
180 185 190

Val Pro Ala Ser Gly Tyr Pro Glu Leu Pro Thr Pro Arg Arg Glu Val
195 200 205

Gln Ser Glu Ser Ala Gln Glu Pro Gly Ala Arg Asp Val Glu Ala Gln
210 215 220

Leu Arg Arg Leu Gln Glu Glu Arg Thr Cys Lys Val Cys Leu Asp Arg
225 230 235 240

Ala Val Ser Ile Val Phe Val Pro Cys Gly His Leu Val Cys Ala Glu
245 250 255

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Cys Ala Pro Gly Leu Gln Leu Cys Pro Ile Cys Arg Ala Pro Val Arg
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Ala Trp Asp His Val Asp Gly Gln Ile
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Pro Trp Thr Glu His Ala Lys Trp Phe
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Leu Thr Ala Glu Val Pro Pro Glu Leu
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10/23

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Ala Thr Leu Ser Arg Gly Pro Ala Phe
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His Gln Asp Lys Val Arg Cys Phe Phe
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Leu Leu Arg Ser Lys Gly Arg Asp Phe

1

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Val Cys Leu Asp Arg Ala Val Ser Ile

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Gly Tyr Pro Glu Leu Pro Thr Pro Arg

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Arg Ser Leu Gly Ser Pro Val Leu Gly Leu
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Arg Leu Ala Ser Phe Tyr Asp Trp Pro Leu

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Phe Tyr Asp Trp Pro Leu Thr Ala Glu Val

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Ser Val Pro Ala Ser Gly Tyr Pro Glu Leu

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Met Gly Pro Lys Asp Ser Ala Lys Cys Leu
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Ser Ile Val Phe Val Pro Cys Gly His Leu
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Thr Gln Glu Arg Cys Gly Pro Arg Ser Leu
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Cys	Ala	Glu	Cys	Ala	Pro	Gly	Leu	Gln	Leu
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Gly	Gln	Ile	Leu	Gly	Gln	Leu	Arg	Pro	Leu
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Leu Thr Ala Glu Val Pro Pro Glu Leu Leu
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Gly Pro Arg Ser Leu Gly Ser Pro Val Leu
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Phe Leu Leu Arg Ser Lys Gly Arg Asp Phe
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Cys Leu Asp Arg Ala Val Ser Ile Val Phe
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Asp Pro Trp Thr Glu His Ala Lys Trp Phe
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Cys Ala Pro Gly Leu Gln Leu Cys Pro Ile
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Thr Tyr Gly Pro Val Phe Met Ser Leu
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Ala Ser His Leu Glu
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